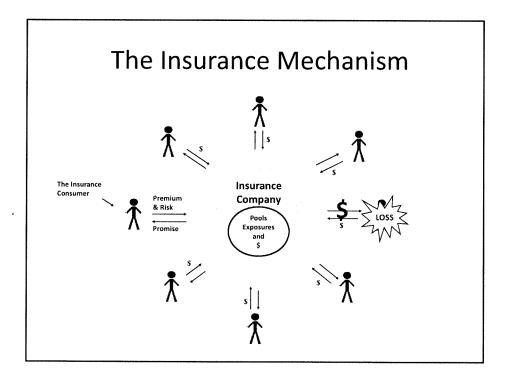
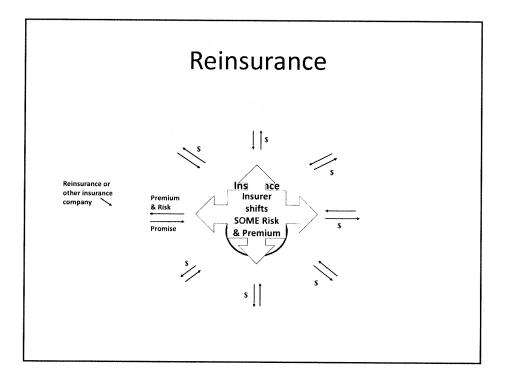
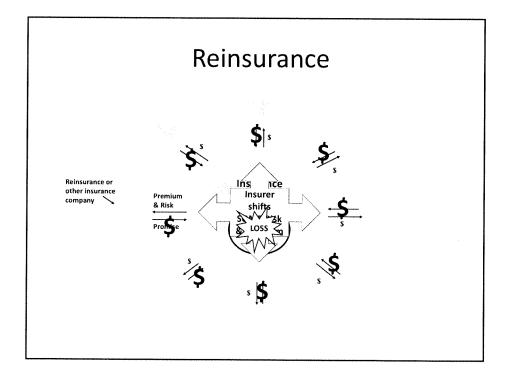
Insurance 101

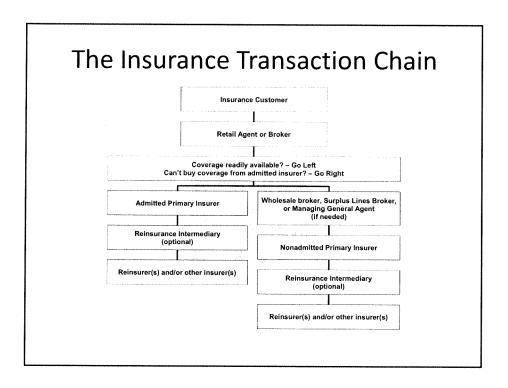
for the
Insurance Committee
Michigan House of Representatives
March 7, 2013

Michael R. Hubbel Professor Emeritus Risk Management and Insurance







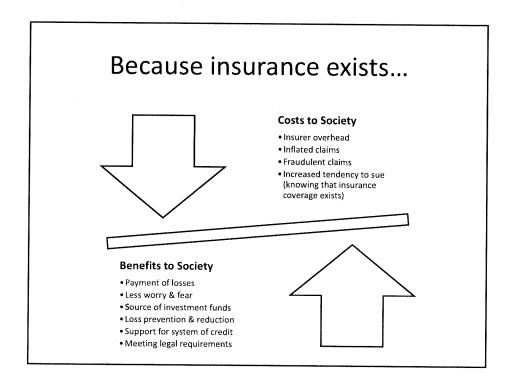


Size of Insurers

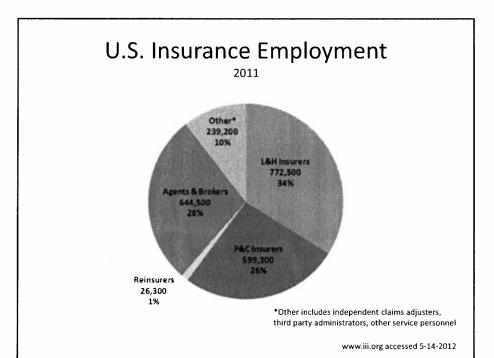
- · Small one state insurers
 - One geographic, regulatory, political and legal environment
- Regional insurers
 - Greater geographic spread of risk
 - Avoid challenging political and legal environments
- National and multinational insurers
 - Greater geographic, political, economic spread of risk

Classification of Insurers from a Regulatory Perspective

- Domestic insurer
 - Domiciled here, i.e. Michigan
- Foreign insurer
 - Domiciled in another state, e.g. Ohio
- Alien insurer
 - Domiciled outside the U.S., e.g. London, England
- Admitted insurer
 - Licensed to write insurance in the insured's state
- Nonadmitted insurer
 - Not licensed in the insured's state (must be licensed in at least one state)
 - Referred to as the excess & surplus lines market
 - Does not file rates and policy forms for regulatory approval



Insurance 101 March 7, 2013



RMI industry retirements are projected to reach 25% of the workforce by 20181

...new, educated professionals are needed to take their places!

Entry-level Positions	Median Annual Salary National	Median Annual Salary Grand Rapids	Requires Bachelor's degree or higher	Projected Annual Job Growth 2011-2018 Michigan ³
Agent – Sales	\$44,711	\$44,118	46%²	9%
Claims Adjuster I	\$40,507	\$39,970	78%	4%
Risk Analyst I	\$47,462	\$46,832	90%	Not available
Underwriter I	\$49,875	\$45,266	80%	8%

Source: www.salary.com April 26, 2012

Building a Talent Magnet: How the Property and Casualty Industry Can Solve Its People Needs, McKinsey & Company, 2010 http://www.mckinsey.com/clientservice/Financial_Services/~/media/Reports/Financial_Services/Talent_in_Pandc_ashx

O-Net Online, CareerOneStop, U.S. Department of Labor, http://www.onetonline.org/find/industry?i=52&g=Go, accessed April 12, 2012

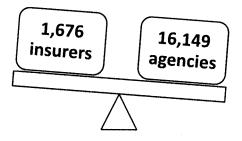
3Economic Modeling Specialists, Inc., www.economicmodeling.com

After at least seven years...

Top RMI Positions	Median Annual Salary National	Median Annual Salary Grand Rapids	Requires Bachelor's degree or higher
Agency	Agency \$198,222		73%
Claims	\$204,649	\$201,933	89%
Risk Management	\$180 245		93%
Underwriting \$180,882		\$178,482	88%

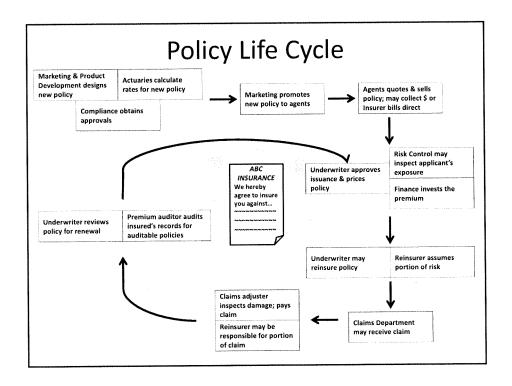
Source: www.salary.com April 26, 2012

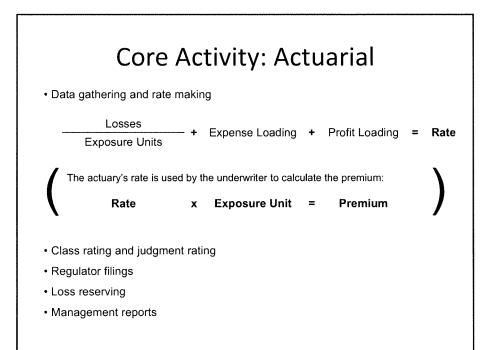
Insurance Employers in Michigan

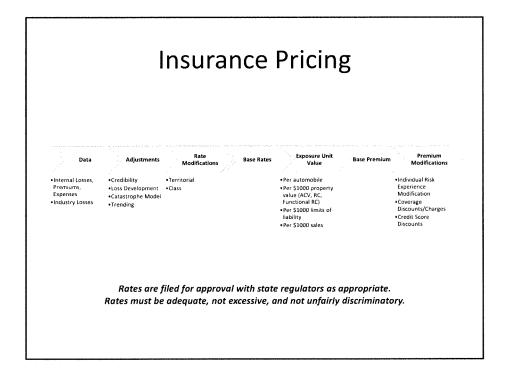


Michigan Office of Financial and Insurance Regulation 2010 Annual Report, http://www.michigan.gov/documents/lara/2010 OFIR Report 360129 7.pdf

Insurance Functions







Core Activity: Distribution

Method	Represents	Independent Contractor or Employee	Compensation	Binding Authority	Owns Expiration Rights (Customer List)	Benefit to Insurer
Independent Agent	One or more insurers	Independent contractor	Commission	Yes, under contract	Yes	Agency established in a market
Exclusive Agent	One insurer	Independent contractor	Commission	Yes, under contract	No	Economies; brand control
Direct Writer	One insurer	Employee of insurer	Salary; possible bonus	Yes	No	Economies; brand control
Direct Response	One insurer	Internet, phone, or mail	n/a	n/a	n/a	Lower cost; brand control
Broker	Insured	Independent contractor	Commission/ sometimes fee	No	Yes	

Core Activity: Underwriting

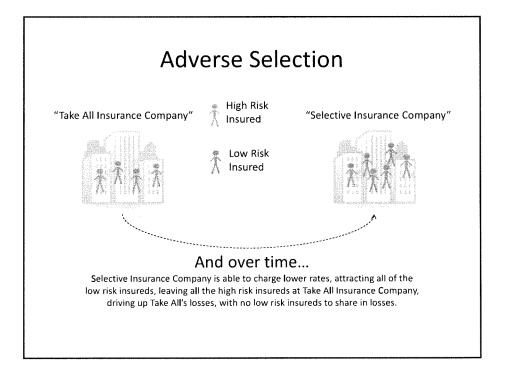
- Risk selection
- Risk pricing

Rate x Exposure Unit = Premium

(Rate is determined by the actuary)

- Determine policy terms & conditions
- Reinsurance

March 7, 2013



Credit Scores versus Insurance Scores

- Credit reports contain a wide variety of credit information about specific individuals referred to as attributes (e.g. loan balances, types of credit, status of each account, judgments, liens, collections, bankruptcies)
- Insurance-score modelers combine and weight selected credit attributes to create an insurance score; attributes used vary by line of insurance, i.e., personal auto, commercial auto, homeowners
- A low insurance score does not cause more losses, but indicates a propensity for loss
- No single risk factor, such as insurance score, location, or age predicts the total risk; they work in combination

The Relationship of Credit-Based Insurance Scores to Private Passenger Automobile Insurance Loss Propensity, EPIC Actuaries, LLC, June 2003

Insurance 101 March 7, 2013

Top Three Risk Factors in Personal Auto Insurance in the U.S. Based on calculation of importance in predictive value

Coverage	Factor 1	Factor 2	Factor 3
BI Liability	Age/Gender	Insurance Score	Geography
PD Liability	Age/Gender	Insurance Score	Geography
Personal Injury Protection	Insurance Score	Geography	Years Insured
Medical Payments	Insurance Score	Limit	Age/Gender
Other Than Collision	Auto Model Year	Age/Gender	Insurance Score
Collision	Auto Model Year	Age/Gender	Insurance Score

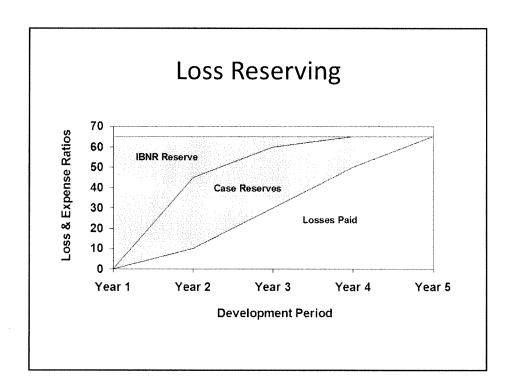
The Relationship of Credit-Based Insurance Scores to Private Passenger Automobile Insurance Loss Propensity, EPIC Actuaries, LLC, June 2003

Core Activity: Claims

- Investigate & settle losses
- Reserving
- Rehabilitation
- Subrogation
- Salvage

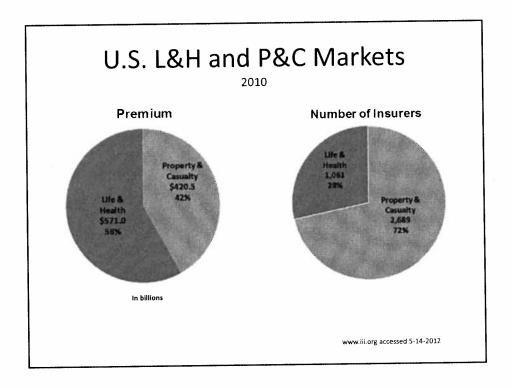
Claims Adjusters

Туре	Represents	Independent Contractor or Employee	Compensation	When Used
Staff Adjuster – Inside	Insurer	Employee	Salary	Simple First-Party Claims
Staff Adjuster – Outside	Insurer	Employee	Salary	Complicated First-Party & All Third-Party Claims
Independent Adjuster	Insurer	Independent Contractor	Fee	Overload of insurer, special expertise, remote location
Public Adjuster	Insured	Independent Contractor	Percentage of Settlement (typically 10%)	Large, complex claims, when insured doesn't have time to negotiate settlement
Agent	Insurer	Independent Contractor	Part of Service under policy (commission)	Trusted agents For very small first- party claims

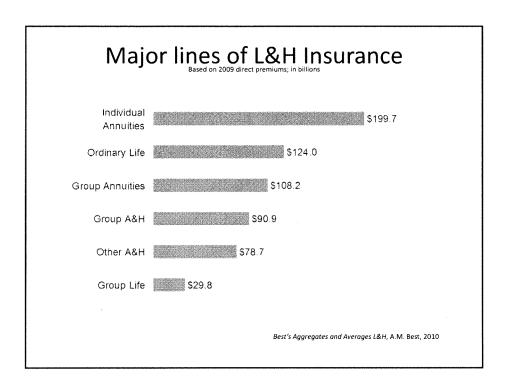


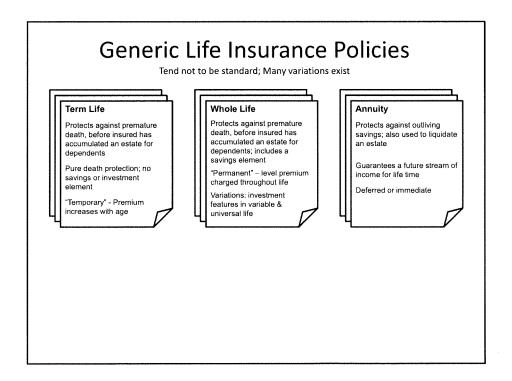
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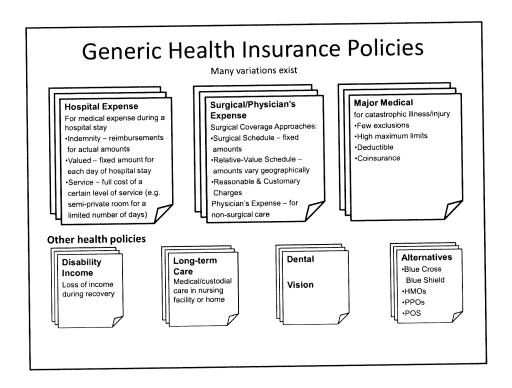
Types of Insurance

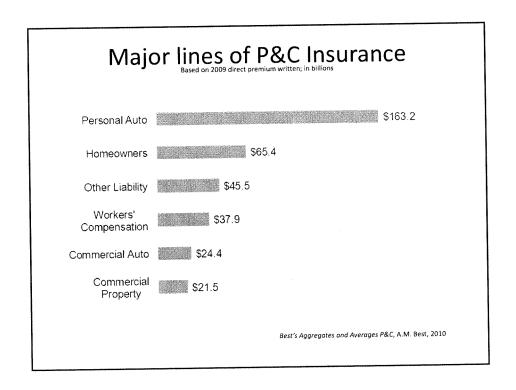


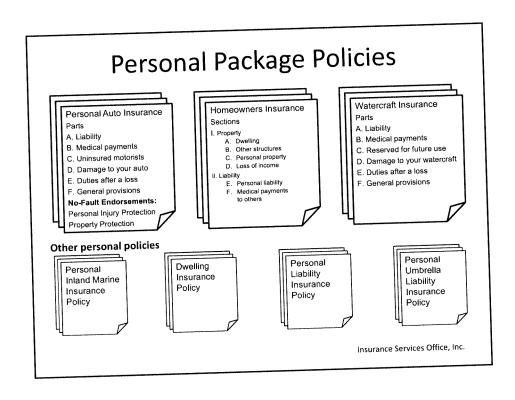
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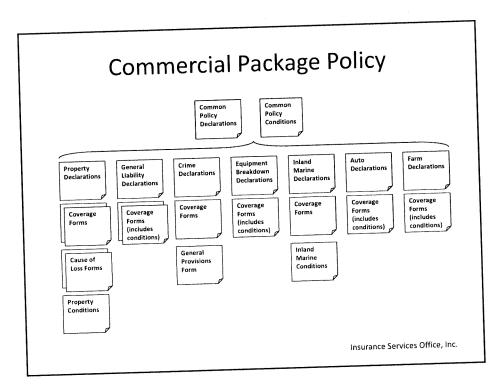




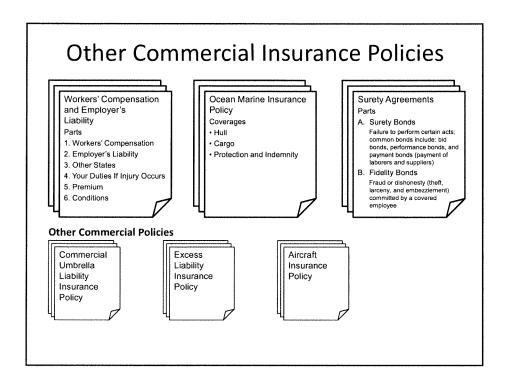


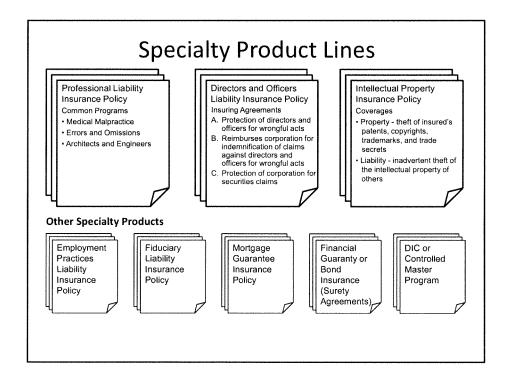






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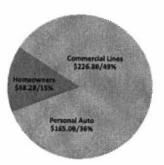


Distribution of Property Casualty by Segment/Line

Personal/Commercial lines split has been about 50/50 for many years; Personal Lines overtook Commercial Lines in 2010

Personal Auto is by far the largest line of insurance and is currently the most important source of industry profits

Billions of additional dollars in homeowners insurance premiums are written by state-run residual market plans

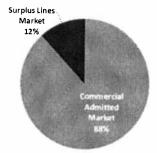


2010 Direct Written Premiums

A.M. Best; Insurance Information Institute research

The Excess & Surplus Lines Market

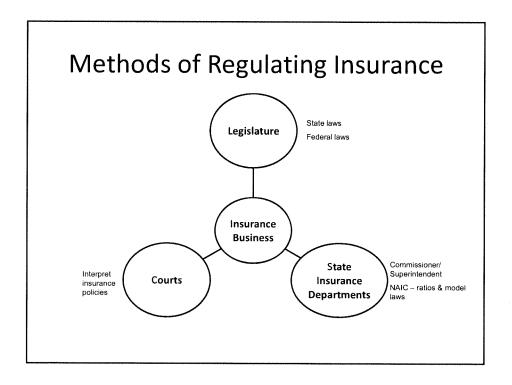
- Distressed risks
 - Unacceptable to most insurance companies
- Unique risks
 - Difficult to evaluate
 - New or emerging risks
 - With no appropriate policy forms
 - · No previous loss experience
- High-capacity risks (Excess Market)
 - Needing very high limits beyond the underwriting capacity of the admitted market
- Certain niche markets not served by licensed carriers

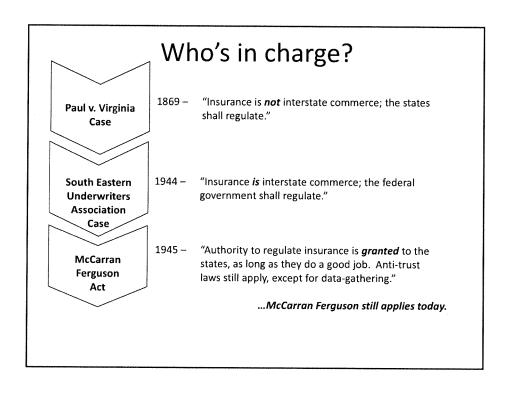


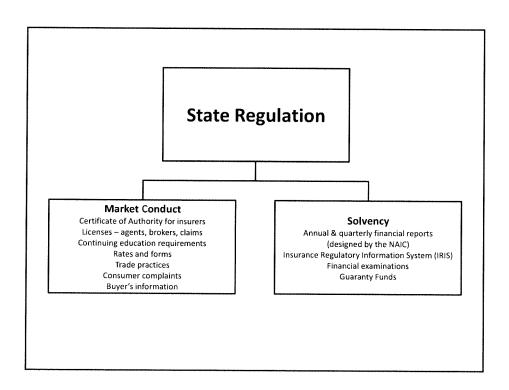
2010 Direct Written Premiums

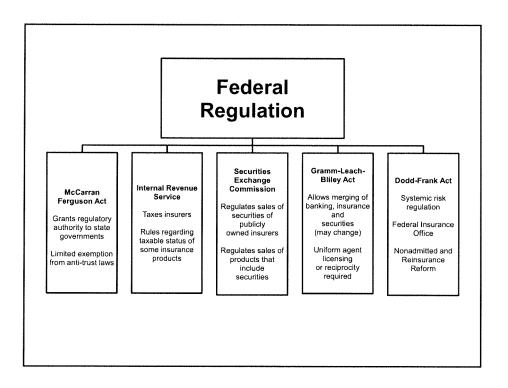
Best's Special Report – U.S. Surplus Lines – Market Review, A.M. Best Company, October 1, 2012 sigma No. 5/2012, Swiss Re, September 3, 2012

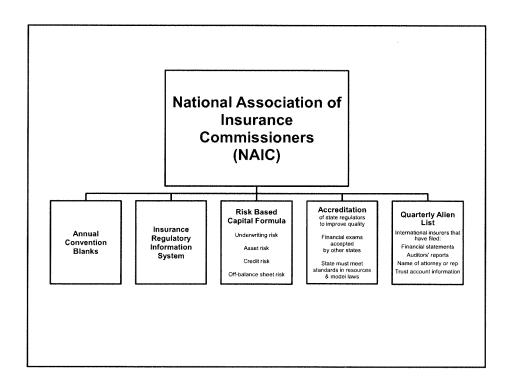
Insurance Regulation











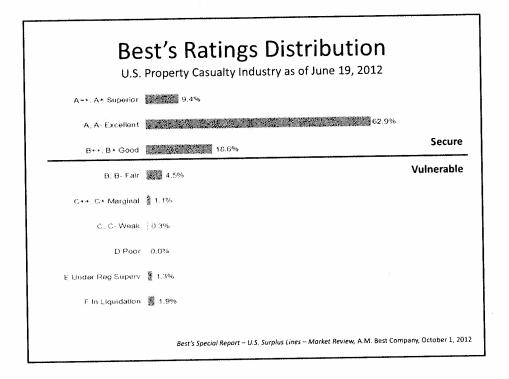
Insurance Company Rating Agencies

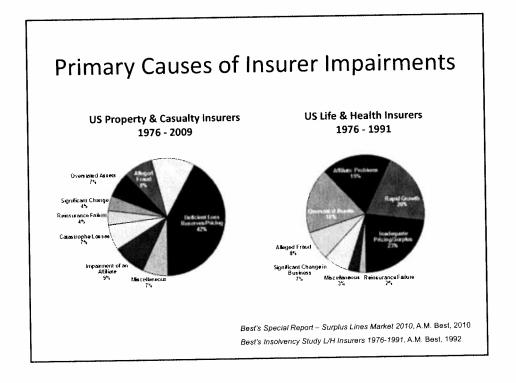
- A.M. Best rates the most insurers, based on a quantitative and qualitative evaluation, as an inducement to operate in a prudent manner and maintain strong financial health.
- Standard & Poor's rates insurers' claims-paying ability, and gives qualified solvency ratings unless insurers pay for further analysis.
- Moody's Investor Service rates publicly traded insurers for long term risk.
- Fitch rates insurers on ability to meet obligations to policyholders and contract holders. Fitch recently purchased the Duff & Phelps rating organization.
- Weiss Research publishes safety ratings of property & casualty, life, health & annuity insurers, and Health Maintenance Organizations, placing insurers in a risk-class that describes the likelihood of insolvency; based on independent, published information, Weiss does not meet with insurers to obtain information.
- **Demotech, Inc.** rates property and casualty insurers that demonstrate a financially strong and stable pattern of operations.

Basis of Insurance Company Ratings

Ratings are typically based on:

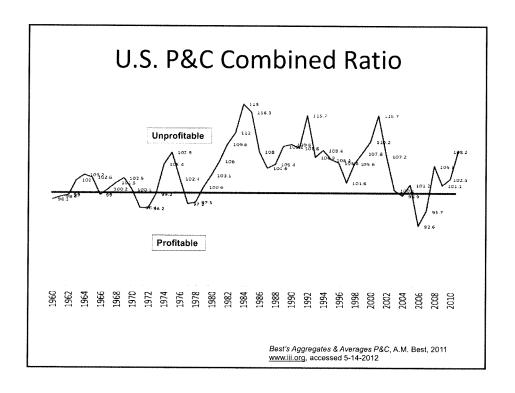
- · Balance sheet strength: underwriting, financial, and asset leverage
- Operating performance: earnings stability and sustainability
- Business profile: mix of business, competitive market position, and quality of management. Key business profile issues:
 - Spread of risk
 - Revenue composition
 - Competitive market position
 - Management
 - Insurance market risk
 - Event risk
- Some are attempting to determine if insurers have an effective enterprise risk management program

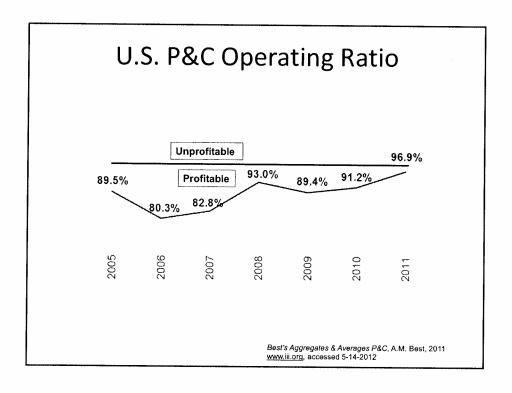


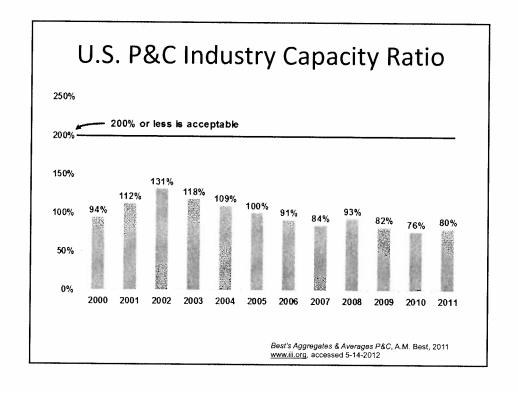


Key P&C Ratios

Ratio	Calculation	Target Values
Loss	Incurred Losses + Loss Adjustment Expenses Earned Premiums	≤ 65%
Expense	<u>Underwriting Expenses</u> Written Premiums	≤ 25%
Combined	Loss Ratio + Expense Ratio	< 100%
Investment Income	Net Investment Income Earned Premium	≥ 10%
Operating	Combined Ratio – Investment Income Ratio	<100%
Capacity	Written Premiums/Policyholder's Surplus	<200%





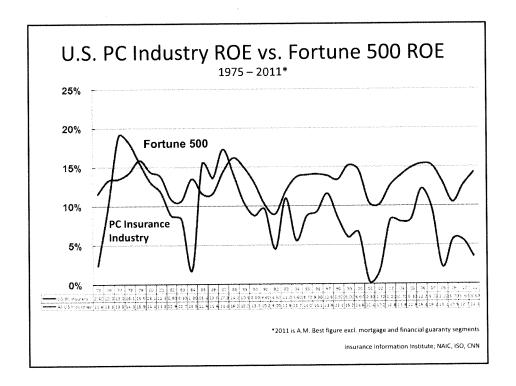


ROE

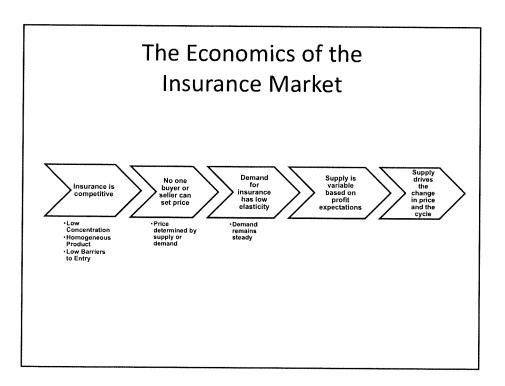
Return on Equity

Overall after-tax profit
(includes underwriting, investment income,
& unrealized capital gains)

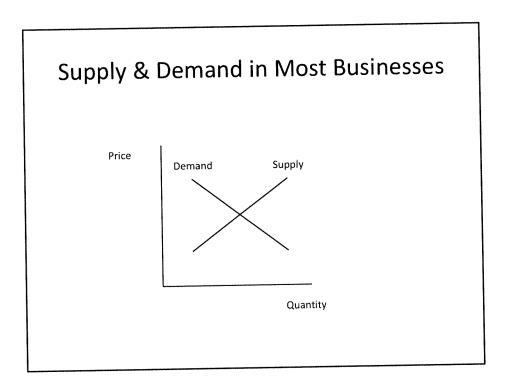
Policyholders' Surplus

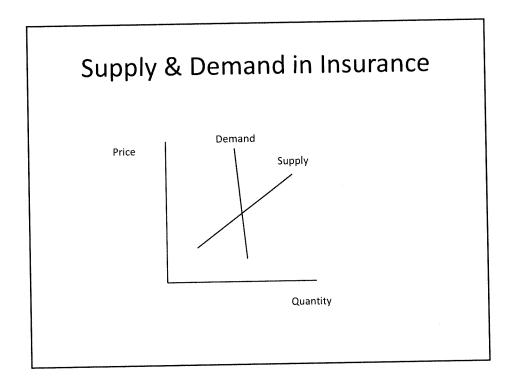


Insurance Market Cycle

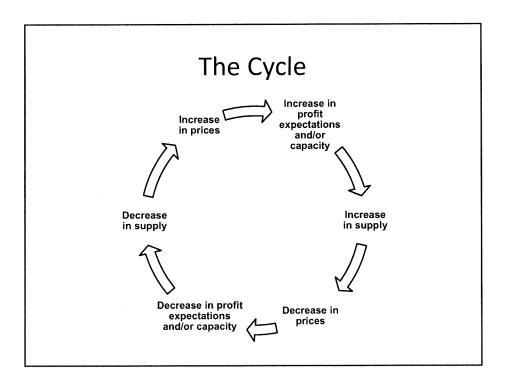


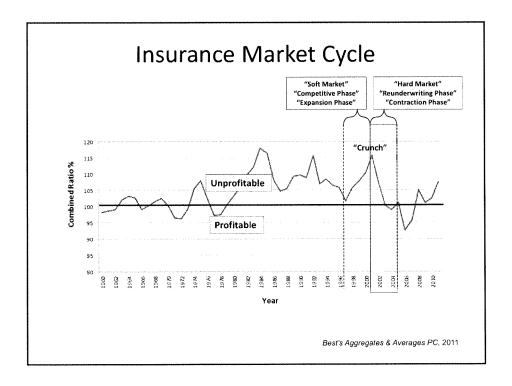
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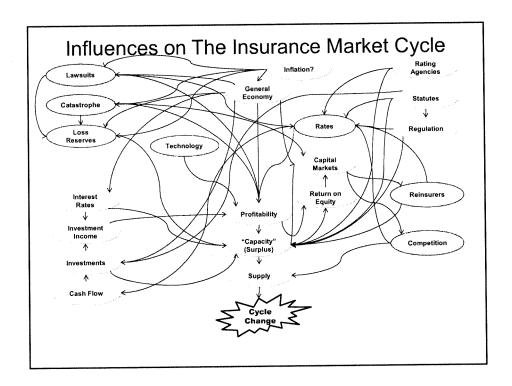




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Impact of the Insurance Cycle on Transaction Variables and Underwriting

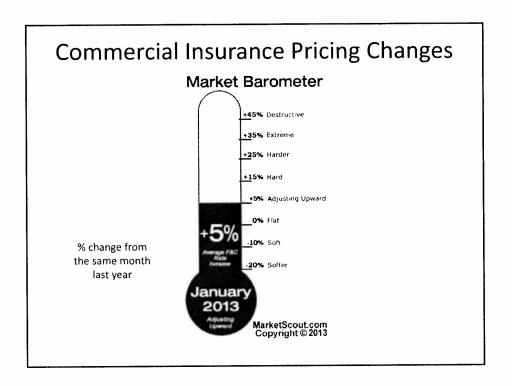
Soft Market

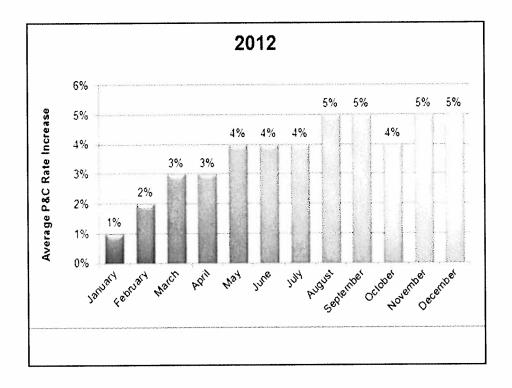
- Information
- Coverage ↑
- Pricing
- Attachment Points
- Capacity/Limits ↑
- Risk Selection Standards

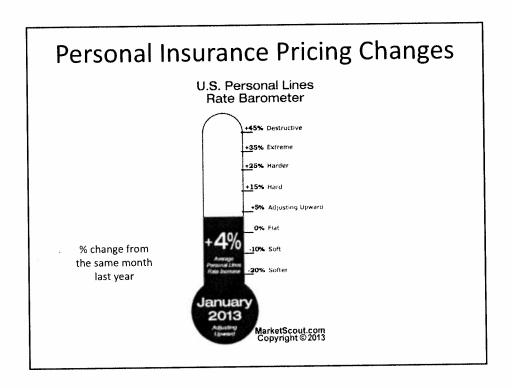
Hard Market

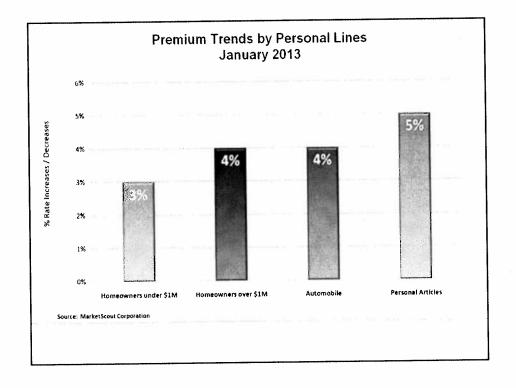
- Information ↑
- Coverage
- Pricing
- Attachment Points
- Capacity/Limits
- Risk Selection Standards 🛧

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For more information...

- Griffith Insurance Education Foundation http://www.griffithfoundation.org/
- Insurance Information Institute http://www.iii.org/
- The Insurance Institutes http://www.aicpcu.org/
- A.M. Best Company http://www.ambest.com/
- National Association of Insurance Commissioners http://www.naic.org/
- National Conference of Insurance Legislators http://www.ncoil.org/
- Council of Insurance Agents & Brokers http://www.ciab.com/
- Market Scout http://www.marketscout.com/frontend/barometer2.asp
- Business Insurance (bi-weekly magazine) http://www.businessinsurance.com/
- National Underwriter (weekly magazine) <u>http://www.nationalunderwriter.com/servlet/StoreFront</u>
- Insurance Journal (daily newsletter; free online) <u>http://www.insurancejournal.com/subscribe/magazine/</u>
- American Risk and Insurance Association (academic trade association) http://www.aria.org/

Insurance & Risk Management Glossaries

- A.M. Best: http://www.ambest.com/resource/glossary.html
- American Council of Life Insurance: http://www.acli.com/Tools/Pages/Glossary.aspx
- Guy Carpenter (reinsurance intermediary): http://www.guycarp.com/portal/extranet/utility/glossary_a.html
- Insurance Information Institute: http://www2.iii.org/glossary/
- International Risk Management Institute: http://www.irmi.com/online/insurance-glossary/default.aspx
- Lloyd's of London: http://www.lloyds.com/Common/Help/Glossary
- National Insurance Law Service: http://insource.nils.com/gloss/gloss.asp